



Gulf of Mexico Harmful Algal Bloom Bulletin

21 July 2005

National Ocean Service

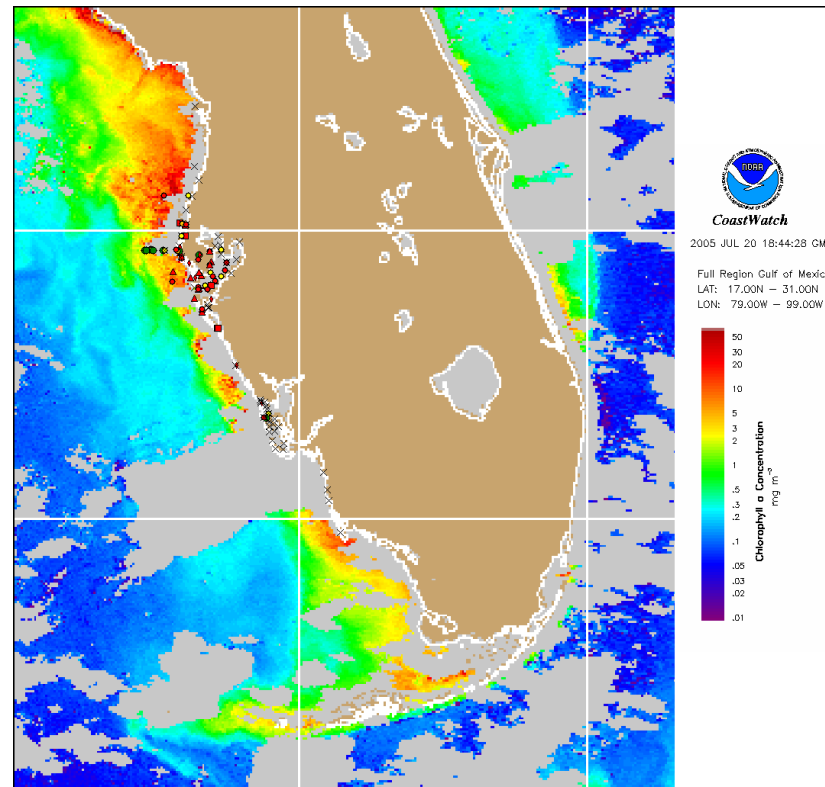
National Environmental Satellite, Data, and Information Service

Last bulletin: July 18, 2005

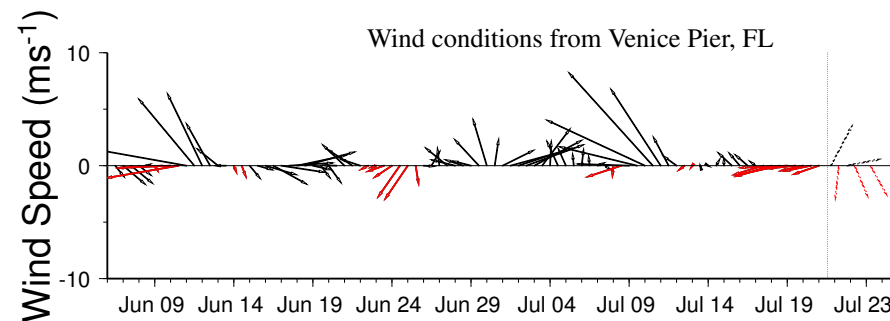
Conditions: A harmful algal bloom has been identified from southern Pasco to northern Sarasota Counties. Patchy very low to low impacts are possible in Southern Pasco and Pinellas counties; with patchy low to high impacts possible in northern Sarasota County and along lower Tampa Bay in Hillsborough and Manatee Counties today through Monday.

Analysis: Resuspension and overcast skies continue along the south-west Florida coastline, limiting extent analysis of the bloom. Satellite imagery from July 20 indicates the bloom may be located as far north as 28°30'N, 82°51'W in northern Pasco County. This is concurrent with results of a wind-transport model, suggesting that the bloom has migrated up to 30km northward since July 14 where the northernmost *K. brevis* sample was collected at Green Key in southern Pasco County. Recent samples collected July 18 by FWRI continue to show no *K. brevis* presence in Collier County. Further sampling in Pasco County is recommended. Conditions will likely maintain impacts at the coastline today through Monday. Forecasted westerlies may transport offshore *K. brevis* to the coast, elevating concentrations in Pinellas or Pasco County over the weekend. Continual reports of discolored water are likely.

~Fisher, Keller



Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from July 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

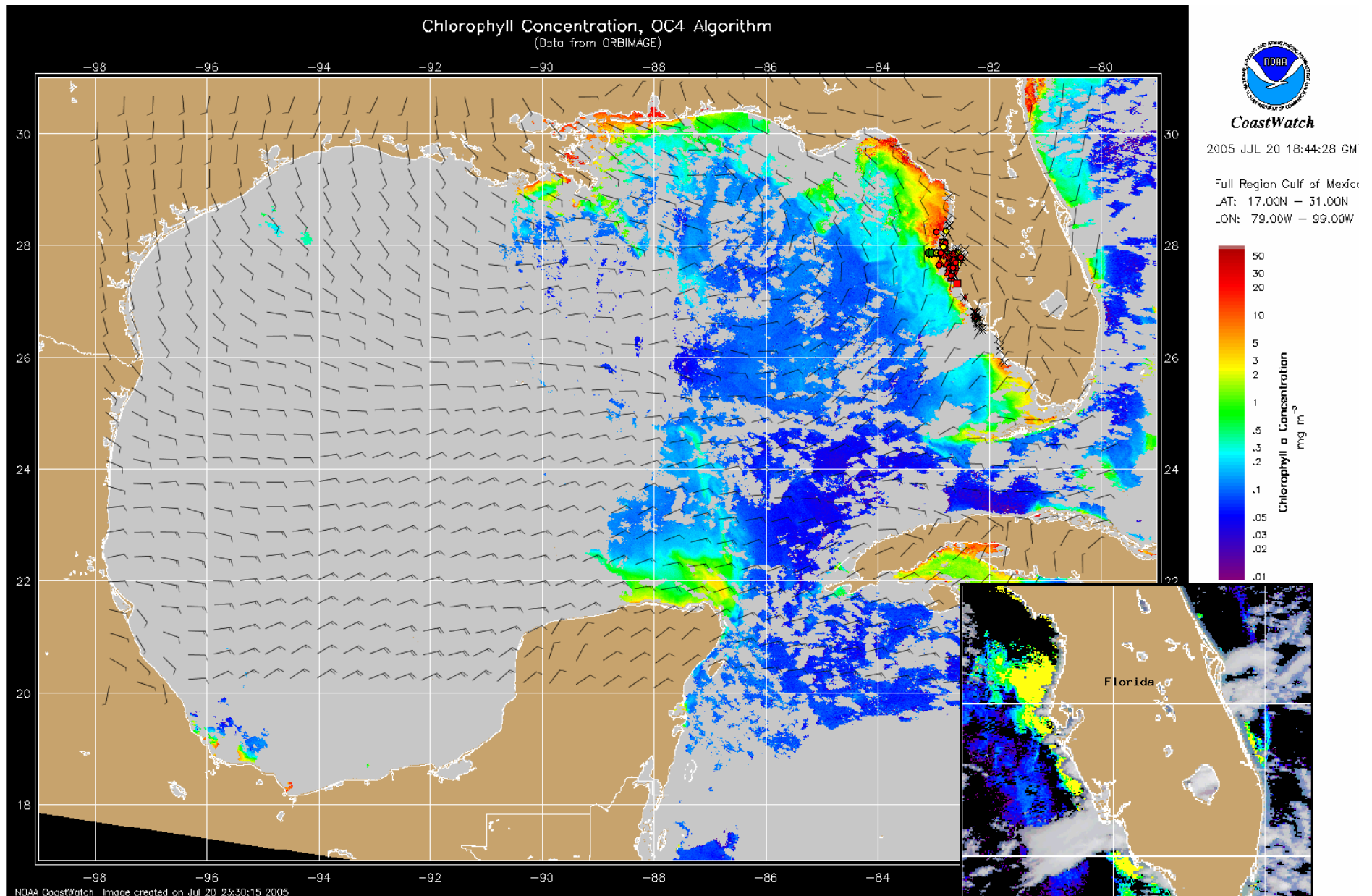


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Mild easterly winds (5kts, 3m/s) today will become onshore at 5-10kts (3-5m/s) this afternoon, then shift variably (5kts, 3m/s) tonight through Friday morning. Westerlies (5-10kts, 3-5m/s) forecasted late Friday morning through Monday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.



Chlorophyll concentration from satellite and forecast winds for July 22, 2005 06Z with cell concentration sampling data from July 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)